

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/777,920	02/07/2001	Jacques Dumas	BAYER 15 P3	6183	
23599	7590 08/11/2005		EXAM	EXAMINER	
•	WHITE, ZELANO & BRA	DESAI,	DESAI, RITA J		
2200 CLARENDON BLVD. SUITE 1400			ART UNIT	PAPER NUMBER	
ARLINGTO	N, VA 22201	1625			
			DATE MAILED: 08/11/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/777,920	DUMAS ET AL.				
	Office Action Summary	Examiner	Art Unit				
·		Rita J. Desai	1625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS, cause the application to become ABANE	be timely filed O) days will be considered timely. From the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on <u>06</u> Ju	ıne 2005.					
· · · ·	This action is FINAL . 2b)⊠ This action is non-final.						
3)	· <u> </u>						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠ Claim(s) <u>1-22,24-30,34-37,39,40,42 and 45-49</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1-22, 24-30, 34-37, 39, 40, 42, 45-49</u> is/are rejected.						
· · · · · ·	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers						
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) 🔲 Notic	e of References Cited (PTO-892)	4) Interview Sumr	nary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
	Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)						

Art Unit: 1625

DETAILED ACTION

Restriction Election:-

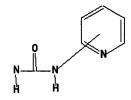
The examiner has clearly given the reasons for restriction.

The classification would depend on the species elected. Which can ranges from class 560, 562, 546, 548, 549 and so on. The different classes shows burdensome search. Even without the different classes it would require different structure searches. This would be burdensome to the PTO.

The Groups would be independent and distinct.

If applicants traverse on the grounds that the inventions are not patentably distinct, applicants should submit evidence or identify such evidence now of record showing the groups to be obvious variants or clearly admit on the record that this is the case. In either instance if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 USC 103 of the other invention.

This is not found persuasive because even that with an ureido group is not applicants contribution over the prior art!



> s 11

SAMPLE SEARCH INITIATED 17:22:19 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2101 TO ITERATE

47.6% PROCESSED 1000 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

Art Unit: 1625

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 39272 TO 44768.

The requirement is still deemed proper and is therefore made FINAL.

Applicant is required to amend the claims to the elected group.

The rejection under 35 USC 112 of claims 1-22, 24-30, 34-37, 39, 39, 40, 42, 45-48 still stands. Applicants arguments are not convincing.

In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue". These factors include 1) the breadth of the claims, 2) the nature of the invention, 3) the state of the prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art, 6) the amount of direction provided by the inventor, 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

- 1) The breadth of the claims: The instant claims encompass many compounds ranging from an aromatic carbocyclic moiety to an aromatic carbocyclic moiety having many large electron withdrawing and bulky groups substituted on it to a moiety having many heterocyclic rings having many large and various groups hanging from it. These compounds cover a very wide range of compounds.
- 2) The nature of the invention: The invention is a (highly) substituted compound for pharmaceutical use.
- 3) The state of the prior art: the prior art does not teach the various substituted compounds.
- 4) The level of one of ordinary skill: The ordinary artisan is highly skilled.
- 5) The level of predictability in the art: It is unknown what the level of predictability is in the art since there are no working examples either in the specification or in the prior art of compounds doing similar activity. The examples shown do not have any any hetero ring substitutions, see table 7 and compound 104 in the specification.

Art Unit: 1625

8. A compound of claim 1, 2, 3 or 4 wherein A is optionally substituted 2 3-, 4-, 5-, 6-, 7- or 8-quinolinyl, 1-, 3-, 4-, 5-, 6-, 7-, 8- isoquinolinyl, benzimidazol-5-yl,

The compounds are drawn to treating cancer. Even a substitution of a methyl verses a hydrogen changes the properties, as seen in caffeine and theophylline. These compounds only differ by a methyl group. One is a bronchodilator.

- 6) The amount of direction provided by the inventor: The inventor provides very little direction in the instant specification. Just a range of data is given for invitro testing and a specific cell line.
- 7) The existence of working examples: The instant specification does not have any working examples.
- 8) The quantity of experimentation needed to make or use the invention based on the content of the disclosure: Since there are no working examples, the amount of experimentation is very high and burdensome. Also, the compounds in table 7 and 107 do not represent the fullest extent of the instant claim 1.

Taking the above eight factors into consideration, it is not seen where the instant specification enables the ordinary artisan to make and/or use the instantly claimed invention.

Thus the rejection still stands.

The rejection of the claims 29, 30, 36 and 48 under 35 USC 112 second para still stands. The arguments are not found to be persuasive.

The Double patenting Rejection over 10788029 still stands.

10/788029 claims teach A to be a quinoline or pyridine, and B is a

B is optionally substituted phenyl or naphthyl,

L is O or S.

Claim 1 recites.

Page 5

Art Unit: 1625

1. A compound of Formula (I)

or a pharmaceutically acceptable salt, prodrug or metabolite thereof, wherein

A is optionally substituted pyridinyl,

8. A compound of claim 1, 2, 3 or 4 wherein A is optionally substituted 2 3-, 4-, 5-, 6-, 7- or 8-quinolinyl, 1-, 3-, 4-, 5-, 6-, 7-, 8- isoquinolinyl, benzimidazol-5-yl,

This reads on the restricted group.

The obvious type Double Patenting ove 10/895985 and 09/889227 has been withdrawn since they are drawn to phenyl instead of the quinoline or pyridyl group.

New Obvious Type Double Patenting Rejection:

The claims are rejected over US 10/361, 858.

It teaches

Art Unit: 1625

A=pyridinyl, B= naphthyl and M is phenyl, pyridinyl, quinolinyl, isoquinolinyl or not present.

A=isoquinolinyl, B= phenyl and M is phenyl, pyridinyl, quinolinyl, isoquinolinyl or not present,

A= isoquinolinyl, B= pyridinyl and M is phenyl, pyridinyl, quinolinyl, isoquinolinyl or not present,

A= isoquinolinyl, B= naphthyl and M is phenyl, pyridinyl, quinolinyl, isoquinolinyl or not present.

A= quinolinyl, B= phenyl and M is phenyl, pyridinyl, quinolinyl, isoquinolinyl or not present.

A= quinolinyl, B= pyridinyl and M is phenyl, pyridinyl, quinolinyl, isoquinolinyl or not present,

A= quinolinyl, B= naphthyl and M is phenyl, pyridinyl, quinolinyl, isoquinolinyl or not present.

Also US 10/848567 which teaches

Conclusion

The claims are not found to be allowable.

Art Unit: 1625

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita J. Desai whose telephone number is 571-272-0684. The examiner can normally be reached on Monday - Friday,9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rita J. Desai Primary Examiner Art Unit 1625

XNesa 8/8/05

R.D. August 8, 2005